

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	COUNTRY. DOCKET NO. 19603/448 (CRF D-1593C)		SERIAL NO. Continuation of 09/440,523
	APPLICANT Barany et al.		09918154
	FILING DATE Herewith		GROUP ART UNIT To Be Assigned

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
9/29	1	5,695,934	12/09/97	Brenner			
	2	5,593,840	01/14/97	Bhatnagar et al.			
	3	5,536,649	07/16/96	Fraiser et al.			
	4	5,494,810	02/27/96	Barany et al.			
	5	5,470,705	11/28/95	Grossman et al.			
9/29	6	5,424,186	06/13/95	Fodor et al.			
9/29	7	5,407,798	04/18/95	Martinelli et al.			

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9/29	8	WO 94/17210	04.08.94	Europe			
	9	WO 94/17206	04.08.94	Europe			
9/29	10	WO 94/11530	26.05.94	Europe			
9/29	11	WO 94/09022	28.04.94	Europe			

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9/29	12	Mao, L., et al., "Microsatellite Alterations as Clonal Markers for the Detection of Human Cancer," <u>Proc. Natl. Acad. Sci. USA</u> , 91:9871-75 (1994)
	13	Mao, L., et al., "Molecular Detection of Primary Bladder Cancer by Microsatellite Analysis," <u>Science</u> , 271:659-62 (1996)
	14	Radford, D.M., et al., "Allelotyping of Ductal Carcinoma <i>in Situ</i> of the Breast: Deletion of Loci on 8p, 13q, 16q, 17p and 171 ¹ " <u>Cancer Research</u> , 55:3399-405 (1995)
	15	Cawkwell, L., et al., "Frequency of Allele Loss of DCC, p53, RBI, WT1, NF1, NM23 and PC/MCC in Colorectal Cancer Assayed by Fluorescent Multiplex Polymerase Chain Reaction," <u>Br. J. Cancer</u> , 70(5):813-8 (1994)
9/29	16	Reed, P.W., et al., "Chromosome-specific Microsatellite Sets for Fluorescence-based, Semi-Automated Genome Mapping," <u>Nature Genetics</u> , 7:390-95 (1994)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Barany et al.	099181574
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<i>RRH</i>	17	5,405,783	04/11/95	Pirring et al.			
	18	5,371,241	12/06/94	Brush et al.			
	19	5,352,582	10/04/94	Lichtenwalter et al.			
	20	5,324,633	06/28/94	Fodor et al.			
	21	5,314,809	05/24/94	Erlich et al.			
<i>RRH</i>	22	5,290,925	03/01/94	Fino			
<i>RRH</i>	23	5,288,468	02/22/94	Church et al.			

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<i>RRH</i>	24	WO 93/20236	14.10.93	Europe			
	25	WO 93/17126	02.09.93	Europe			
	26	WO 92/16655	01.10.92	Europe			
<i>RRH</i>	27	WO 92/10588	25.06.92	Europe			

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<i>RRH</i>		28	Syvänen, A., et al., "Identification of Individuals by Analysis of Biallelic DNA Markers, Using PCR and Solid-Phase Minisequencing," <i>Am. J. Hum. Genet.</i> , 52:46-59 (1993)
		29	Deng, G., et al., "An Improved Method of Competitive PCR for Quantitation of Gene Copy Number," <i>Nucleic Acids Research</i> , 21(20):4848-49 (1993)
		30	Hsuih, T.C.H., et al., "Novel, Ligation-Dependent PCR Assay for Detection of Hepatitis C Virus in Serum," <i>J. Clin. Microbiol.</i> , 34(3):a-g (1996)
		31	Park, Y.N., et al., "Detection of HCV RNA Using Ligation-Dependent Polymerase Chain Reaction in Formalin-Fixed Paraffin-Embedded Liver Tissue," (1996) (submitted)
		32	Wegmüller, B., et al., "Combination of Oligonucleotide Ligation and PCR to Detect Point Mutations," (unpublished)
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9211	33	5,278,298	01/11/94	Chakraborty et al.			
	34	5,258,506	11/02/93	Urdea et al.			
	35	5,202,231	04/13/93	Drmanac et al.			
	36	5,143,854	09/01/92	Pirrung et al.			
	37	5,035,996	07/30/91	Hartley			
	38	4,988,617	01/29/91	Landegren et al.			
	39	4,883,750	11/28/89	Whiteley et al.			

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9211	40	WO 90/15070	13.12.90	Europe			
	41	WO 89/10977	16.11.89	Europe			
	42	EP 0 601 714 A1	15.06.94	Europe			
	43	WO 96/06190	02/29/96	Europe			

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9211		44	Nilsson, M., et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," <u>Science</u> , 265:2085-88 (1994)
		45	Newton, C.R., et al., "The Production of PCR Products With 5' Single-Stranded Tails Using Primers That Incorporate Novel Phosphoram Phosphoramidite Intermediates," <u>Nucleic Acids Research</u> , 21(5):115-62 (1993)
		46	Day et al., "Detection of Steroid 21-Hydroxylase Alleles Using Gene-Specific PCR and a Multiplexed Ligation Detection Reaction," <u>Genomics</u> , 29:152-62 (1995)
		47	Grossman et al., "High-Density Multiplex Detection of Nucleic Acid Sequences: Oligonucleotide Ligation Assay and Sequence-Coded Separation," <u>Nucleic Acids Research</u> , 22(21):4527-34(1994)
		48	Jin et al., "Alternating Current Impedance Characterization of the Structure of Alkylsiloxane Self-Assembled Monolayers on Silicon," <u>Langmuir</u> , 10:2662-71 (1994)

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<i>RJA</i>		49	Cheng et al., "In Situ Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy of Carboxylate-Bearing, Siloxane-Anchored, Self-Assembled Monolayers: A Study of Carboxylate Reactivity and Acid-Base Properties," <u>Langmuir</u> , 11:1190-95 (1995)			
		50	Kim et al., "Polymeric Self-Assembled Monolayers. 2. Synthesis and Characterization of Self-Assembled Polydiacetylene Mono- and Multilayers," <u>J. Am. Chem. Soc.</u> , 117:3963-67 (1995)			
		51	Lauer et al., "Cloning, Nucleotide Sequence, and Engineered Expression of <i>Thermus thermophilus</i> DNA Ligase, a Homolog of <i>Escherichia coli</i> DNA Ligase," <u>J. Bacteriol.</u> , 173(16):5047-53 (1991)			
		52	Barany et al., "Cloning, Overexpression and Nucleotide Sequence of a Thermostable DNA Ligase-Encoding Gene," <u>Gene</u> , 109:1-11 (1991)			
		53	Jou et al., "Deletion Detection in the Dystrophin Gene by Multiplex Gap Ligase Chain Reaction and Immunochromatographic Strip Technology," <u>Human Mutation</u> , 5:86-93 (1995)			
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		55	Munkholm et al., "Polymer Modification of Fiber Optic Chemical Sensors as a Method of Enhancing Fluorescence Signal for pH Measurement," <u>Anal. Chem.</u> 58:1427-30 (1986)			
		56	Graham et al., "Gene Probe Assays on a Fibre-Optic Evanescent Wave Biosensor," <u>Biosensors & Bioelectronics</u> , 7:487-93 (1992)			
<i>RJA</i>		57	Chetverin et al., "Sequencing of Pools of Nucleic Acids on Oligonucleotide Arrays," <u>BioSystems</u> , 30:215-31 (1993)			

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<i>9/10/02</i>		58	Pease et al., "Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <u>Proc. Natl. Acad. Sci. USA</u> , 91:5022-26 (1994)			
		59	Beattie et al., "Advances in Genosensor Research," <u>Clin. Chem.</u> , 41(5):700-06 (1995)			
		60	Bains, W., "Mixed Hybridization and Conventional Strategies for DNA Sequencing," <u>Gata</u> , 10(3-4):84-94 (1993)			
		61	Kuznetsova et al., "DNA Sequencing by Hybridization with Oligonucleotides Immobilized in a Gel," <u>Mol. Biol. (Mosk)</u> (Russia), 28(2):290-99			
		62	Lysov et al., "Measurement of Distances Between DNA Segments Increases the Efficiency of Sequencing by Hybridization with Oligonucleotide Matrix," <u>Molecular Biology</u> , 28(3):433-36 (1994)			
		63	Livshits et al., "Dissociation of Duplexes Formed by Hybridization of DNA with Gel-Immobilized Oligonucleotides," <u>Journal of Biomolecular Structure & Dynamics</u> , 11(4):783-812 (1994)			
		64	Davis et al., "Quantitative Detection of Hepatitis C Virus RNA With a Solid-phase Signal Amplification Method: Definition of Optimal Conditions for Specimen Collection and Clinical Application in Interferon-treated Patients," <u>Hepatology</u> , 19(6):1337-41 (1994)			
		65	Urdea, M.S., "Synthesis and Characterization of Branched DNA (bDNA) for the Direct and Quantitative Detection of CMV, HBV, HCV, and HIV," <u>Clinical Chemistry</u> , 39(4):725-26 (1993)			
<i>9/10/02</i>		66	Reynolds et al., "Analysis of Genetic Markers in Forensic DNA Samples Using the Polymerase Chain Reaction," <u>Anal. Chem.</u> , 63:2-15 (1991))			

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		68	Gyllensten et al., "PCR-Based HLA Class II Typing," <u>PCR Meth. Appl.</u> , 1:91-98 (1991)				
		69	Chamberlain et al., "Deletion Screening of the Duchenne Muscular Dystrophy Locus Via Multiplex DNA Amplification," <u>Nucleic Acids Res.</u> , 16(23):11141-56 (1988)				
		70	L. C. Tsui, "Mutations and Sequence Variations Detected in the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Gene: A Report From the Cystic Fibrosis Genetic Analysis Consortium," <u>Human Mutat.</u> , 1:197-203 (1992)				
		71	Hollstein et al., "p53 Mutations in Human Cancers," <u>Science</u> , 253:49-53 (1991)				
		72	R.K. Saiki, et al., "Enzymatic Amplification of β -Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," <u>Science</u> 230:1350 (1985)				
		73	Wu, et al., "The Ligation Amplification Reaction (LAR) -- Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <u>Genomics</u> 4:560-69 (1989)				
		74	Landegren, et al., "A Ligase-Mediated Gene Detection Technique," <u>Science</u> 241:1077-80 (1988)				
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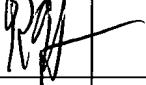
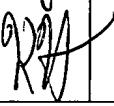
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		79	F.F. Chehab, et al., "Detection of Specific DNA Sequences by Fluorescence Amplification: A Color Complementation Assay," <u>Proc. Natl. Acad. Sci. USA</u> , 86:9178-82 (1989)				
		80	Livak et al., "Detection of Single Base Differences Using Biotinylated Nucleotides With Very Long Linker Arms," <u>Nucleic Acids Res.</u> , 20(18):4831-37 (1989)				
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		82	Weber, J.L. et al., "Abundant Class of Human DNA Polymorphisms Which Can Be Typed Using the Polymerase Chain Reaction," <u>Am. J. Hum. Genet.</u> 44:388-96 (1989)				
		83	Weissenbach, J. et al., "A Second-Generation Linkage Map of the Human Genome," <u>Nature (London)</u> 359:794-800 (1992)				
		84	Ruppert, J.M., et al., "Evidence for Two Bladder Cancer Suppressor Loci on Human Chromosome 9 ¹ ," <u>Cancer Res.</u> 53:5093-94 (1993)				

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		88	The Huntington's Disease Collaborative Research Group, "A Novel Gene Containing a Trinucleotide Repeat That is Expanded and Unstable on Huntington's Disease Chromosomes," <u>Cell</u> 72:971-83 (1993)				
		89	Kremer, E.J., et al., "Mapping of DNA Instability at the Fragile X to a Trinucleotide Repeat Sequence p(CCG)n," <u>Science</u> 252:1711-14 (1991)				
		90	Imbert, G., et al., "Origin of the Expansion Mutation in Myotonic Dystrophy," <u>Nat. Genet.</u> 4:72-76 (1993)				
		91	Orr, H.T., et al., "Expansion of an Unstable Trinucleotide CAG Repeat in Spinocerebeller Ataxia Type 1," <u>Nat. Genet.</u> 4:221-26 (1993)				
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9/27/02		94	Koide, R., et al., "Unstable Expansion of CAG Repeat in Hereditary Dentatorubral-Pallidoluysian Atrophy (DRPLA)," <u>Nat. Genet. 6:9-13 (1994)</u>				
			Peinado, M.A., et al., "Isolation and Characterization of Allelic Losses and Gains in Colorectal Tumors by Arbitrarily Primed Polymerase Chain Reaction," <u>Proc. Natl. Acad. Sci. USA 89:10065-69 (1992)</u>				
		96	Ionov, Y., "Ubiquitous Somatic Mutations in Simple Repeated Sequences Reveal a New Mechanism for Colonic Carcinogenesis," <u>Nature (London) 363:558-61 (1993)</u>				
			Thibodeau, S.N., et al., "Microsatellite Instability in Cancer of the Proximal Colon," <u>Science 260:816-19 (1993)</u>				
		98	Risinger, J.I., "Genetic Instability of Microsatellites in Endometrial Carcinoma," <u>Cancer Res. 53:5100-03 (1993)</u>				
			Han, H.-J., et al., "Genetic Instability in Pancreatic Cancer and Poorly Differentiated Type of Gastric Cancer," <u>Cancer Res. 53:5087-89 (1993)</u>				
		100	Peltomäki, P., "Microsatellite Instability is Associated with Tumors That Characterize the Hereditary Non-Polyposis Colorectal Carcinoma Syndrome," <u>Cancer Res. 53:5853-55 (1993)</u>				
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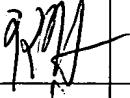
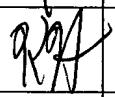
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	103	5,912,148	09/98	Eggerding			
	104	5,800,984	09/01/98	Vary			
	105	5,731,171	03/98	Bohlander			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

 		106	Leach, F., et al., "Mutations of a mutS Homolog in Hereditary Nonpolyposis Colorectal Cancer," <u>Cell</u> 75:1215-25 (1993)				
		107	Fishel, R., et al., "The Human Mutator Gene Homolog MSH2 and its Associate with Hereditary Nonpolyposis Colon Cancer," <u>Cell</u> 75:1027-38 (1993)				
		108	Papadopoulos, N., et al., "Mutation of a mutl. Homolog in Hereditary Colon Cancer," <u>Science</u> 263:1625-29 (1994)				
		109	Bronner, C.E., et al., "Mutation in the DNA Mismatch Repair Gene Homologue hMLH1 is Associated with Hereditary Non-Polyposis Colon Cancer," <u>Nature (London)</u> 368:258-61 (1994)				
		110	Celi, et al., "A Rapid and Versatile Method to Synthesize Internal Standards for Competitive PCR," <u>Nucleic Acids Research</u> 21(4):1047 (1993)				
		111	Wiedmann et al., "Ligase Chain Reaction (LCR)-Overview and Applications," <u>PCR Methods and Applications</u> CSH Laboratory Press, S51-S64 (1994)				

EXAMINER

HORLICK

DATE CONSIDERED

6/16/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 6.9; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.